MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Name of work: Improvements to roads & drains at Kattigenahalli Main & Cross, Srinagara Nivantara layout- Sri Krishna Garden Shivasha - Ucar layout - Varaha layout: Bindhu layout and surrounding area in ward No-05

Jobcode: 005-20-000094

EST COST: ₹00-00 Lakhs

Work Order No: BBMP/EE/BTP/W.O/120/20-21 Dt: 29/9/20

Contractor Name: M/s SMLP Asphalts, prop: BB Umesha,

(1) Removing & Refixing Stone slabs of drains & pointing in C.M (1:3) with all lead & lift and as per direction etc complete.

M. A. R. 57 (Rule 116)
Measurement Book

No. E

Serial No. .....

535611

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty is as per measurement sheet Item No 1						
						previously paid qty	1646.40 m²
						Up to date qty	1646.40 m²
		@ Rate 116/m²					= 190982 : 40
(2)	Excavation for road drains & similar works by manual means in ordinary soil involving as avg. lift throw up to 2m & an average lift up to 0.5m excavated surface leveled & sides neatly dressed the disposal easily to be leveled neatly						N/A

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	After breaking of clods etc Complete. Qty is as per measurement sheet Item No 2						
	upto 125%	5761.60 =	Present qty			- 264.80 m^3	
			previously paid qty			- 1058.05 m^3	
			upto date qty			1322.85 m^3	
	ⓐ Rate 217/m^3					= 287058 = 45	
	Above 125%	3619.56 =	present qty			16.68 m^3	
			previously paid qty			—	
			upto date			16.68 m^3	
	ⓐ Rate 217/m^3					= 8621 = 10	
						3619.56 · 00	

M. A. R. 57 (Rule 116) No. E
Measurement Book
535612

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	③ Providing granite slabs of selecting quality roughly dressed having a size of 7.5 cms thick & fixed in C.M (1:6) including fixing curing etc complete Qty is as per measurement sheet Item No 3						
			present qty			—	
			previously paid qty			2008.80 m^2	
	ⓐ Rate 779/m^2					= 156485 = 20	
	④ Providing & laying P.C.C of Mix 1:3:6 with 40 mm Nil — down fine graded granite coarse & fine aggregates in foundation machanically mixes places in						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	foundation & compacted by vibration including curing for 14 days including cost of all material labour, TOM curing form work etc complete qty is from pre measurement sheet item no 4						
	37054/92 = present qty - 6.51 m³						
	previously paid qty - 8.422 m³						
	up to date qty - 14.93 m³						
	@ Rate 5692/m³						84987 = 00
							84981.56
(5)	providing & constructing granite/basalt SSM in foundation with C.M stone hammered dressed in course not less than 20cm high, bond stone						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535613

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	at 2m apart in each course including cost of materials labour curing etc complete qty is as per measurement sheet item no 5						
	83767.32 = present qty - 16.38						
	previously paid qty 22.46						
	up to date qty 38.84 m³						
	@ Rate 5114/m³						198667 = 00
							198627.76
(6)	providing & laying in position P.C.C of mix 1:2:4 with 20m.m down granite metal concrete aggregates coarse & fine aggregates mix with						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Concreate laid in layers not exceeding 15 cms like well compacted in foundations including cost of all materials labour Hom Curing etc complete Qty is as per measurement sheet - Item no 6						
	2944.92 = present Qty = 4.88 m³						
	previously paid Qty = 458.36						
	up to date Qty 463.24 m³						
	@ Rate 6034/m³					= 2795180=00	
						2795190.16	
(7)	Providing & Constructing load bearing wall with solid concreate blocks of size 400 x 150 x 200 mm having block density not less than 1800 kg/m³ and having a min average compressive strength 4.00 N/mm² & constructed with 1:4 including						

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Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Cost of all materials labours Charges Curing etc Compleate Qty is as per measurement sheet - Item no 7						
	present Qty						
	previously paid Qty 3535.52 m²						
	up to date Qty 3535.52 m²						
	@ Rate 1028/m²					= 3634518=56	
(8)	Providing & Fixing RCC precast covering slab of 100 mm thick for drains in C.C M25 using graded granite Jelly 20 mm & down size steel reinforcement, including form work, curing						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Concreate finished surface on both sides etc complete						
	Qty is as per measurement - sheet item No 8						
	2315329.52 = present Qty						943.86 944.73
	previously paid Qty						3520.88
	up to date Qty						4465.61 m² 4464.72
	@ Rate 2453/m²						= 10954129 = 0 10952648.16
(9)	Providing & Fixing precast covering slab 250mm thick made out of M25 & Jolly 20mm down size with steel reinforcement including form work curing including cost of all materials labour hire charges of machinery loading & unloading lead & lift transportation etc complete						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535615

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty is as per measurement - sheet item No 9						
	205621.20 = present Qty						36.15 m²
	previously paid Qty						46.80 m²
	up to date Qty						82.95 m²
	@ Rate 568/m²						= 47820 = 0 47819.60
(10)	Excavation for roadwork in soil with hydraulic excavation including cutting & loading tippers trimming bottom & side slopes in accordance with requirement of lines grades & cross section & transporting to the embankement with all lead & lift etc complete						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty is as per measurement Sheet- Item No 10						
		235244.40	=	present Qty - 3920.74 m³			
				previously paid Qty - 6382.27 m³			
				Up to date Qty		10303.01 m³	
	⑧ Rate - 60/m³					= 618180.60	
(11)	Construction of granular Sub-base Grading-V as Sub base + drainage layer by providing course graded crushed stone aggregates of granite/basalt materials to work site spreading in uniform layers with motor grader on prepared subgrade + compacting with vibratory power roller to achieve the 98% proctor density etc complete						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535616

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Qty is as per measurement Sheet- Item No 11						
		2767138.85	=	present Qty - 1320.83 m³			
				previously paid Qty - 3435.03 m³			
				Up to date Qty		4755.86 m³	
	⑥ Rate 2095/m³					= 9963526.70	
(12)	Providing laying & preading + Compacting Crushed Stone aggregates of granite/basalt to wet mix macadam specification including premixing 14 materials with water at OMC in mechanical mix plant- Carriage of mixed materials by tipper to site laying in uniform						

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Layed with power in sub base/base course on well prepared Surface & Compacting with Vibar - tary roller to achive the desired density etc Compleate Qty is as per measurment sheet - Item no 12 4921172.30 = present qty - 2342.50 m³ previously paid qty - 4859.82 m³ tup to date qty - 7202.12 m³ @ Rate 210/- m³ 1513654.12 = 1513650 = 00						
(13)	providing & applying primer coat with 5.5 bitumen emulsion on prepared Surface of granular base Such as WMM including cleaning of road						

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Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Surface & Spraying primer at the rate of 0.60 kg/m² Using mechanical means etc Compleate Qty is as per measurment sheet - Item No 13 785651.40 = prasent qty - 26188.38 previously paid qty - 8852.19 tup to date qty - 35070.57 m² = 1052117 = 10 @ Rate 30/- m²						
(14)	cleaning the exisiting black topped surface with brooms, soft brushes & finaly dusting with old gunny bags & / or compressed air to receive						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Bituminous treatment including cost of all materials using etc Complete qty is as per measurement sheet Item no 14						
		29176.98	= present qty			- 4862.83	
			previously paid qty				
			up to date qty			4862.83 m²	
	(a) Rate 6/m²					= 29176.98	
(15)	Providing & applying tack coat using 80/100 grade bitumen using crushed aggregate of specified grading premixed with (VG 30) grade bitumen binder & transporting the hot mix to work site						

M. A. R. 57 (Rule 116)
Measurement Book

No. E 535618

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	laying to the required grade level & alignment) on the prepared black topped surface at 2.5 (9/10 m² heating bitumen in boiler fitted with spray set including cost of all materials etc Complete qty is as per measurement sheet Item no 15						
		40366.73	= present qty			- 31051.21 m²	
			previously paid qty			8882.19 m²	
			up to date qty			39933.40 m²	
	(a) Rate 13/m²					= 519134 = 20	

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MEASUREMENT BOOK

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(16)	providing & laying Dense Graded Bituminous Macadam using Crushed aggregates of specified grading premixed with VG30 grade bitumen binder & transporting the hot mix to work site laying to the required grade lines & alignment rolling with Smooth wheeled vibratory & tandem roller to achieve the desired Compaction in all respects etc complete Qty is as per measurement sheet - Item No 16 9048373.18 = present Qty - 1306.59 m³ previously paid Qty - 444.11 m³						
	₹ Rate 6926/m³					Upto date Qty - 1750.69 m³ 12125278.94	= 12125312

M. A. R. 57 (Rule 116) No. E 535619
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc. of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(17)	providing & laying bituminous Semi dense 40 mm thick layer with hot mix plant - using Crushed aggregates of specified grading premixed with bituminous binder & filler, transporting hot mix to work site laying with a paver finisher to the required grade level & alignment - rolling with - Smooth wheeled Vibratory & tandem rollers to achieve the desired Compaction in all respect - Compact Qty is as measurement sheet - Item 17 10106298.40 = present Qty = 1241.56 previously paid Qty - 355.29 m³						
	₹ Rate 8740/m³					Upto date Qty - 1596.85 m³ 12998359.00	= 12998326

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	(18) Road marking with Hot Applied thermoplastic compound with Reflectorising Glass Beads on Bituminous Surface providing & laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms/m² area thickness of 2.5 mm is exclusive of surface applied glass beads etc complete as per present Qty 1200.56 m² @ Rate 475/m² = 570169.00 (570171.00)						
	(19) Supply & installation of round shape traffic pavement marker made of polycarbonate & ABS moulded body & reflective panels with micro prismatic tire capable of providing total						

M. A. R. 57 (Rule 116) No. E 535620
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	internal reflection of the light. Centering the lens face & shall support a load of 16000 kg tested in accordance to specifics of category A of width circular so the base width & height shall not exceed 500 x 10 mm & 02 mm & with min reflective area of 13 m² on each sides & the slope to the base shall be 35 degree etc complete as per measurement Sheet Item No 19 present Qty - 1022 NO @ Rate 375/NO = 383250=00						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
(20)	Supply & fixing of Retro Reflective Single Arrow Road name signboard of size 1600 m.m x 900 m.m made - out of retro reflective sheeting conforming to type XI std of ASTM D 4956-09 A full base ground of blue color & white letter & Arrows over 1 mm Aluminium Skin on both side with back side painted grey colour & fixed over M.S Support frames CC angle of 15 m.m x 20 m.m x 12 m.m supported by 38 m.m OD Stainless Steel pipe all round in 304 grade firmly fixed to the ground by means of properly design foundation of size 450 x 450 x 600 m.m in 1:1.5:3 ratio c/c etc complete						
	Qty is as per measurement sheet item no 20						

M. A. R. 57 (Rule 116) No. E 535621
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	4 to 12.5 %.					Wall - Qty -	12.60 m²
		@ Rate 4799/- m²					= 1864 64 = n
	Above 12.5 %.					Pavement - Qty -	11.87 m²
		@ Rate 4799/- m²					= 17512 = n
(E1)	providing & laying reinforced cement concrete NP3 for culverts including shuttering ends & fixing collars with C.M 1:2 including cost & all material etc complete						
	Qty is as per measurement sheet item no (E1)						

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MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

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M. A. R. 57 (Rule 116) No. E 535622
Measurement Book

Serial No. .....
Name of work ..... Bagalur main Road From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8

Bagalur Main Road

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Palenahalli		L-538.3m	Palenahalli Cross			Kattigenahalli
						Palenahalli Kattigenahalli Road	
			L-1300m				
	Asphalt Road						Kaglipu Road.

23/7/24

22 ಪಾಸು

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

M. A. R. 57 (Rule 116) No. E 535623
Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Palenahalli Cross						Palenahalli Kattigenahalli Road
	Bhagath Enclave						
	Asphalt Road						Palenahalli
							Alpha School Opposite Rd

23/7/24

22 ಪಾಸು

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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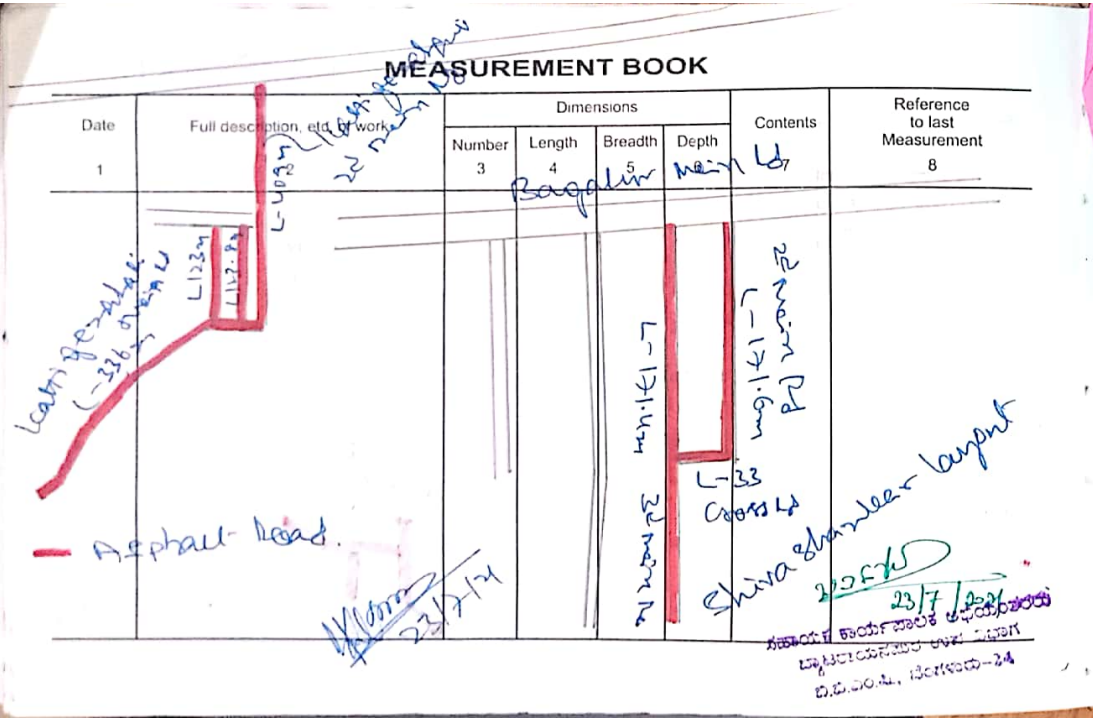
MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5		7	8



M. A. R. 57 (Rule 116) Measurement Book

No. E 535621

2nd & Final

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...ork ..... From ..... To .....

...ntractor of nature of Agency.....

...mencement of work.....

Date	Full description, etc, of work	Number	Dimensions Length	Breadth	Depth	Contents	Reference to last Measurement
1	2	3	4	5	6	7	8
	P 3739		Total	–	–	82910000	
	Special Development Works ರಲ್ಲಿ		1st & Part	Previous Bill		46582000	
	ಬಿಲ್ಲು ಮಜಬೂರು ರೂ.36328000/- ಕ್ಕೆ ಸಲ್ಲಿಸಿ ಸಾಮು ಮಾಡುವ		2nd & Final	Present TTB		36328000	
	ಇದರಲ್ಲಿ ರೂ. 1778000/- ಕ್ಕೆ ಕೊಂದಾಚೆ				IT	363280	
	ಮಾಡಬೇಕಾದರು ರೂ. 3,45,50,000/- ಗಳನ್ನು				CGST	324358	
					SGST	324358	
					CESS	363280	
	FT/NEFT/RTGS ಮುಖಾಂತರ ಜಮಾ ಮಾಡಲಾಗಿದೆ				CBF	36328	
	ಜಮಾ ವಿಷಯ ನಿರ್ವಾಹಕರು ಲೆಕ್ಕಾಧಿಕಾರಿ ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ ಬೃ.ಚೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು				LR	365846	
					Fine	550	
					Del:	1778000	
					Charge	34650000	

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